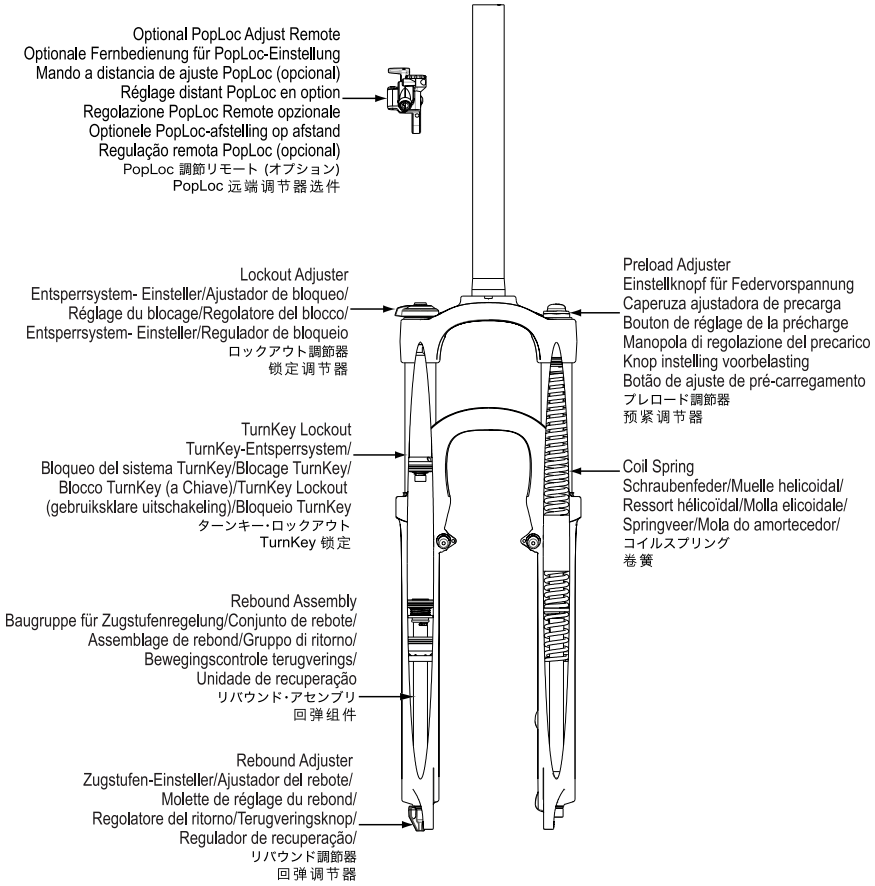
ROCK SHOX

User Manual

POWERED BY SRAM



NOTE: YOUR FORK'S APPEARANCE MAY VARY FROM THE ILLUSTRATIONS/PHOTOS IN THIS MANUAL. FOR THE LATEST INFORMATION ABOUT YOUR FORK VISIT OUR WEBSITE AT WWW.ROCKSHOX.COM.

HINWEIS: DAS AUSSEHEN IHRER GABEL KANN VON DEN ZEICHNUNGEN ODER FOTOS IN DIESEM HANDBUCH ABWEICHEN. AKTUELLE INFORMATIONEN ZU IHRER GABEL FINDEN SIE AUF UNSERER WEBSITE UNTER WWW.ROCKSHOX.COM.

NOTA: EL ASPECTO DE SU HORQUILLA PUEDE DIFERIR DE LAS ILUSTRACIONES O FOTOGRAFÍAS DE ESTE MANUAL. PARA CONSULTAR LA INFORMACIÓN MÁS ACTUALIZADA SOBRE SU HORQUILLA, VISITE NUESTRO SITIO WEB EN WWW.ROCKSHOX.COM.

REMARQUE: L'APPARENCE DE VOTRE FOURCHE PEUT ETRE DIFFERENTE DE CELLE DES FOURCHES REPRESENTEES SUR LES ILLUSTRATIONS/PHOTOS DE CE MANUEL. VOUS TROUVEREZ LES DERNIERES INFORMATIONS TECHNIQUES CONCERNANT VOTRE FOURCHE EN VISITANT NOTRE SITE INTERNET A L'ADRESSE: WWW.ROCKSHOX.COM.

NOTA: L'ASPETTO EFFETTIVO DELLA FORCELLA POTRÀ ESSERE DIVERSO DALLE ILLUSTRAZIONI E DALLE FOTOGRAFIE CONTENUTE NEL PRESENTE MANUALE. PER AVERE INFORMAZIONI AGGIORNATE SULLA FORCELLA, VISITARE IL NOSTRO SITO WEB ALL'INDIRIZZO WWW.ROCKSHOX.COM.

OPMERKING: UW VORK KAN ER IETS ANDERS UITZIEN DAN OP DE ILLUSTRATIES/FOTO'S IN DEZE HANDLEIDING. BEZOEK VOOR DE MEEST RECENTE INFORMATIE OVER UW VORK ONZE WEBSITE OP WWW.ROCKSHOX.COM.

NOTA: O ASPECTO DA FORQUETA PODE NÃO SER EXACTAMENTE O DAS ILUSTRAÇÕES OU FOTOGRAFIAS DESTE MANUAL. PARA INFORMAÇÕES TÉCNICAS ACTUALIZADAS ACERCA DA FORQUETA, VISITE O WEBSITE WWW.ROCKSHOX.COM.

注：お買い上げのフォークの外観は、本マニュアルのイラストや写真とは異なる場合があります。技術情報の詳細については、当社 WEB サイト（WWW.ROCKSHOX.COM）をご覧ください。

注释：您的自行车前叉的外观与本手册中的插图／照片相比可能有所不同。要了解有关前叉的最新信息，请访问我们的网站：WWW.ROCKSHOX.COM。

CONGRATULATIONS!

You have the best in suspension components on your bicycle! This manual contains important information about the safe operation and maintenance of your fork. To ensure that your RockShox fork performs properly, we recommend that you have your fork installed by a qualified bicycle mechanic. We also urge you to follow our recommendations to help make your riding experience more enjoyable and trouble-free.

IMPORTANT
CONSUMER SAFETY INFORMATION

1. The fork on your bicycle is designed for use by a single rider, on mountain trails, and similar off-road conditions.
2. Before riding the bicycle, be sure the brakes are properly installed and adjusted. Use your brakes carefully and learn your brakes' characteristics by practicing your braking technique in non-emergency circumstances. Hard braking or improper use of the front brake can cause you to fall. If the brakes are out of adjustment, improperly installed or are not used properly, the rider could suffer serious and/or fatal injuries.
3. Your fork may fail in certain circumstances, including, but not limited to, any condition that causes a loss of oil; collision or other activity bending or breaking the fork's components or parts; and extended periods of non-use. Fork failure may not be visible. Do not ride the bicycle if you notice bent or broken fork parts, loss of oil, sounds of excessive topping out, or other indications of a possible fork failure, such as loss of shock absorbing properties. Instead, take your bike to a qualified dealer for inspection and repair. In the event of a fork failure, damage to the bicycle or personal injury may result.
4. Always use genuine RockShox parts. Use of aftermarket replacement parts voids the warranty and could cause structural failure to the shock. Structural failure could result in loss of control of the bicycle with possible serious and/or fatal injuries.
5. Use extreme caution not to tilt the bicycle to either side when mounting the bicycle to a carrier by the fork drop-outs (front wheel removed). The fork legs may suffer structural damage if the bicycle is tilted while the drop-outs are in the carrier. Make sure the fork is securely fastened down with a quick release. Make sure the rear wheel is fastened down when using ANY bike carrier that secures the fork's drop-outs. Not securing the rear can allow the bike's mass to side-load the drop-outs, causing them to break or crack. If the bicycle tilts or falls out of its carrier, do not ride the bicycle until the fork is properly examined for possible damage. Return the fork to your dealer for inspection or call RockShox if there is any question of possible damage (See the International Distributor List). A fork leg or drop-out failure could result in loss of control of the bicycle with possible serious and/or fatal injuries.
6. **Forks designed for use with 'v'-style brakes:** only mount cantilever-type brakes to the existing brake posts. Forks with hangerless style braces are only designed for V-style or hydraulic cantilever brakes. Do not use any cantilever brake other than those intended by the brake manufacturer to work with a hangerless brace. Do not route the front brake cable and/or cable housing through the stem or any other mounts or cable stops. Do not use a front brake cable leverage device mounted to the brace. **Forks designed for use with disc-style brakes:** follow the brake manufacturer's installation instruction for proper installation and mounting of the brake caliper.
7. Observe all owner's manual instructions for care and service of this product.

ROCKSHOX FORKS ARE DESIGNED FOR COMPETITIVE OFF-ROAD RIDING AND DO NOT COME WITH THE PROPER REFLECTORS FOR ON-ROAD USE. YOUR DEALER SHOULD INSTALL PROPER REFLECTORS TO MEET THE CONSUMER PRODUCT SAFETY COMMISSIONíS (CPSC) REQUIREMENTS FOR BICYCLE STANDARDS IF THE FORK IS GOING TO BE USED ON PUBLIC ROADS AT ANY TIME.

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FORK INSTALLATION

It is extremely important that your RockShox fork is installed correctly by a qualified bicycle mechanic. **Improperly installed forks are extremely dangerous and can result in severe and/or fatal injuries.**

1. Remove the existing fork from the bicycle and the crown race from the fork. Measure the length of the fork steerer tube against the length of the RockShox steerer tube. The RockShox steerer tube may need cutting to the proper length. Make sure there is sufficient length to clamp the stem (refer to the stem manufacturer's instructions).

⚠ WARNING ⚠

DO NOT ADD THREADS TO ROCKSHOX THREADLESS STEERERS THE STEERER TUBE CROWN ASSEMBLY IS A ONE-TIME PRESS FIT. REPLACEMENT OF THE ASSEMBLY MUST BE DONE TO CHANGE THE LENGTH, DIAMETER OR HEADSET TYPE (THREADED OR THREADLESS).

DO NOT REMOVE OR REPLACE THE STEERER TUBE. THIS COULD RESULT IN THE LOSS OF CONTROL OF THE BICYCLE WITH POSSIBLE SERIOUS AND/OR FATAL INJURIES.

2. Install the headset crown race (29.9mm for 1 1/8" steerers) firmly against the top of the fork crown. Install the fork assembly on the bike. Adjust the headset until you feel no play or drag.
3. Install the brakes according to the manufacturer's instructions and adjust brake pads properly. Use the fork only with disc style brakes mounted through the provided mounting holes. Do not use any cantilever brake other than those intended by the brake manufacturer to work with a hangerless brace.
4. Forks designed for standard quick releases: adjust the front wheel quick release to clear the dropout's counter bore. The quick release nut must be tightened after the wheel is properly seated into the dropout's counter bore. Make sure four or more threads are engaged in the quick release nut when it is closed. Orient the quick release lever in front of and parallel to the lower tube in the locked position.
5. Keep in mind tire clearance as you choose tires. Maximum size is 2.3" wide installed. Be sure to check this diameter whenever you change tires. To do this, remove the top caps and spring stack assemblies and compress the fork completely to make sure at least 5 mm of clearance exists between the top of the inflated tire and the bottom of the crown. Exceeding maximum tire size will cause the tire to jam against the crown when the fork is fully compressed.

POPLOC REMOTE INSTALLATION

The PopLoc Remote Lockout lever allows the rider to control the movement of their suspension fork without removing their hands from the handlebars. Specific left and right PopLocs are available.

If needed, remove the grip, brake lever, and shifter from the handlebar. If you are unfamiliar with the removal of these items, please consult the manufacturer's instructions.

1. Slide the Poploc onto the handlebar.
2. Re-install the shifter, brake lever, and grip on the handlebars. If you are unfamiliar with the installation of these items, please consult the manufacturer's instructions. Always adhere to the recommended torque specifications for these items.
3. Position the PopLoc as desired on the handlebar and tighten the clamp bolt to 20 in-lb (2.25 Nm)
4. Forks with PopLoc Adjust: Turn the blue compression adjustment dial counterclockwise until it stops.
5. Press the release button on the PopLoc.
6. Install the cable in the PopLoc.
7. Install the cable into the housing.

8. Feed the cable and housing into the cable stop on the fork crown.
9. Gently pull on the cable and align it with the groove in the rotating cam of the Motion Control damper.
10. Tighten the cable fixing bolt on the rotating cam to 8 in-lb (.9 Nm)

NOTE: FOR PUSHLOC INSTALLATION OR PUSHLOC WITH MATCHMAKER INSTALLATION, PLEASE REFER TO THE INSTRUCTIONS ON OUR WEBSITE AT WWW.ROCKSHOX.COM.

PERFORMANCE TUNING

RockShox forks can be tuned for your particular weight, riding style, and terrain.

SETTING SAG

Dart forks are designed to sag when you are sitting on your bike. Sag is the compression of the fork caused by the rider's weight. Proper sag allows the front wheel to follow the contour of the terrain as you ride.

Sag is adjusted by turning the top cap preload adjuster (fig 1). Turning the adjuster clockwise increases spring preload (i.e. stiffening the spring) decreasing sag. Turning the adjuster counter clockwise decreases spring preload which increases sag.

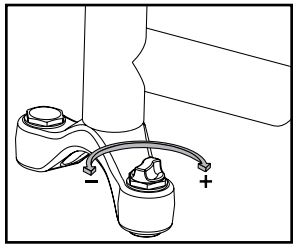

FIG. 1

To measure sag, install a zip tie on the upper tube of the fork flush against the dust wiper. Sit on the bike with normal riding apparel. Step off the bike, and measure the distance between the dust wiper and the zip tie. This is your sag. Adjust the preload as needed to reach the recommended sag.

Travel	Recommended Sag
80mm	12-20mm
100mm	15-25mm
120mm	18-30mm

COIL SPRING TUNING

CHANGING THE SPRING RATE

Spring rate is the amount of force needed to compress a spring one inch. Changing your fork's coil spring for a spring of a higher or lower rate will alter the overall feel of your fork. Higher spring rates make the fork feel more "stiff", while lower spring rates make the fork more "supple". Contact your local RockShox dealer to order replacement springs.

REBOUND DAMPING

EXTERNAL REBOUND ADJUSTMENT (DART 2 WITH TURNKEY OPTION/DART 3)

Rebound damping controls the speed at which a fork returns to its full extension following compression. Located at the bottom of the right fork leg is the rebound adjuster knob. Turning the adjuster in the direction indicated by the "rabbit" on the rebound speed decal decreases rebound damping, causing the fork to return to full extension faster. Turning the adjuster in the direction indicated by the "turtle" increases rebound damping, slowing the return of the fork to full extension.

Excessive rebound damping will cause the fork to "pack up" over successive bumps, reducing travel and causing the fork to bottom out. Set your fork to rebound as fast as possible without "topping out" or kicking back. This allows your fork to follow the contours of the trail, maximizing stability, traction and control.

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TURNKEY LOCKOUT SYSTEM (DART 2 WITH TURNKEY OPTION/DART 3)

IMPORTANT NOTE: WHEN STORING A BICYCLE OR FORK UPSIDE-DOWN OR ON ITS SIDE, OIL SEALED IN THE UPPER TUBE CAN COLLECT ABOVE THE TURNKEY ASSEMBLY. UPON RETURNING THE BICYCLE/FORK TO A NORMAL RIDING POSITION, INITIAL PERFORMANCE OF THE TURNKEY SYSTEM MAY BE LESS THAN OPTIMAL. TO QUICKLY RETURN THE FORK TO PROPER PERFORMANCE, RETURN THE FORK TO 'OPEN' POSITION AND CYCLE THE FORK THROUGH ITS TRAVEL 10-20 TIMES. FOR INFORMATION ON RETURNING YOUR FORK TO 'OPEN' POSITION, KEEP READING!

The TurnKey lockout system offers a two position 'on/off' lockout. Using either the crown mounted adjuster or an optional PopLoc Remote, the rider is able to choose between maximum compliance and fork movement (when the lockout is 'off') and minimal compliance and fork movement (when the lockout is 'on').

The TurnKey lockout is 'off' when either the crown mounted adjuster (or remote spool) is in the full counterclockwise position or the PopLoc Remote lever returns to the 'unlock' position. The lockout turns 'on' as the rider rotates the crown mounted adjuster clockwise or by pressing forward on the optional Poploc Remote located on the handlebar.

NOTE: WHEN THE TURNKEY LOCKOUT IS 'ON' AND THE FORK ENCOUNTERS A CONSIDERABLE INPUT FORCE, THE LOCKOUT WILL 'BLOWOFF' AND ALLOW THE FORK TO MOVE INTO ITS TRAVEL TO ABSORB THE INPUT FORCE. THE FORK WILL RETURN AND REMAIN IN ITS LOCKOUT STATE UNTIL EITHER ANOTHER FORCE IS ENCOUNTERED OR THE RIDER TURNS THE ADJUSTER TO THE 'OFF' POSITION.

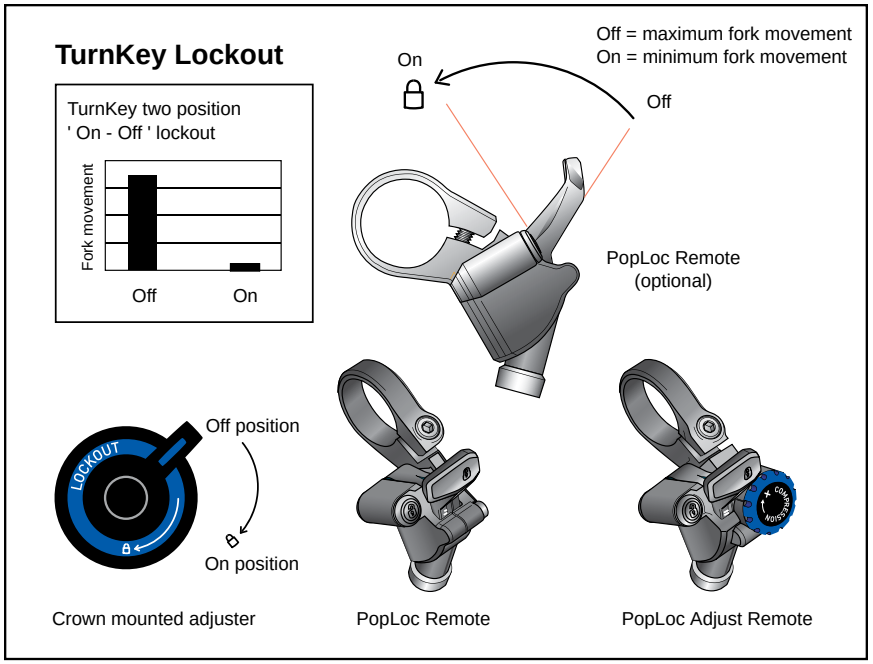

FIG. 2

OIL TUNING (DART 2)

Changing the HydraCoil oil in your fork will alter its rebound characteristics. Rebound is the return stroke of the fork in opposition to compression. To slow the rebound of your fork (greater damping), replace the stock 5 wt. oil with a heavier weight suspension oil. For faster rebound (less damping), replace the stock oil with a lighter weight suspension oil. For further information on oil volumes and adding oil to your fork, visit our website at www.rockshox.com or contact your local dealer or distributor.

MAINTENANCE

To maintain the high performance, safety, and long life of your fork, periodic maintenance is required. If you ride in extreme conditions, maintenance should be performed more frequently.

NOTE: WE RECOMMEND THIS SERVICE BE PERFORMED BY A QUALIFIED BICYCLE MECHANIC. TO OBTAIN SERVICE INFORMATION OR INSTRUCTIONS, VISIT OUR WEBSITE AT WWW.ROCKSHOX.COM OR CONTACT YOUR LOCAL ROCKSHOX DEALER OR DISTRIBUTOR.

Torque Tightening Values

Top Caps	65 in-lb (7.3 Nm)
Brake Posts	80 in-lb (9.0 Nm)
Shaft Bolts	60 in-lb (6.8 Nm)
U-Turn Adjuster Knob Screw	12 in-lb (1.4 Nm)

SERVICE INTERVALS	Dart 1/2	Dart 3
Clean dirt and debris from upper tubes	E	E
Inspect upper tubes for scratches	E	E
Lubricate dust seals/tubes	10	10
Check to caps, brake posts, and shaft bolts for proper torque	25	25
Check air pressure	*	*
Remove lowers, clean/inspect bushings, and change oil bath	*	50
Change oil in Motion Control System	*	*
Clean and lubricate Air U-Turn/Dual Air/Air Assist assembly/Solo Air	*	*
Clean and lubricate coil spring or coil U-Turn spring assembly	100	100
Clean and lubricate PopLoc cable and housing	*	*

NOTES:

E = EVERY RIDE

NUMERIC VALUES REPRESENT HOURS OF RIDING TIME.

INCREASE SERVICE INTERVALS BASED ON RIDER WEIGHT, AGGRESSIVE RIDING STYLE/CONDITIONS, INCLEMENT WEATHER AND RACING.

SRAM CORPORATION WARRANTY

EXTENT OF LIMITED WARRANTY

SRAM warrants its products to be free from defects in materials or workmanship for a period of two years after original purchase. This warranty only applies to the original owner and is not transferable. Claims under this warranty must be made through the retailer where the bicycle or the SRAM component was purchased. Original proof of purchase is required.

LOCAL LAW

This warranty statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state (USA), from province to province (Canada), and from country to country elsewhere in the world.

To the extent that this warranty statement is inconsistent with the local law, this warranty shall be deemed modified to be consistent with such law, under such local law, certain disclaimers and limitations of this warranty statement may apply to the customer. For example, some states in the United States of America, as well as some governments outside of the United States (including provinces in Canada) may:

a. Preclude the disclaimers and limitations of this warranty statement from limiting the statutory rights of the consumer (e.g. United Kingdom).

b. Otherwise restrict the ability of a manufacturer to enforce such disclaimers or limitations.

LIMITATIONS OF LIABILITY

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, In no event Shall SRAM or its third party supplies be liable for direct, indirect, special, incidental, or consequential damages.

LIMITATIONS OF WARRANTY

This warranty does not apply to products that have been incorrectly installed and/or adjusted according to the respective SRAM technical installation manual. The SRAM installation manuals can be found online at www.sram.com or www.rockshox.com.

This warranty does not apply to damage to the product caused by a crash, impact, abuse of the product, non-compliance with manufacturers specifications of usage or any other circumstances in which the product has been subjected to forces or loads beyond its design.

This warranty does not apply when the product has been modified.

This warranty does not apply when the serial number or production code has been deliberately altered, defaced or removed.

This warranty does not apply to normal wear and tear. Wear and tear parts are subject to damage as a result of normal use, failure to service according to SRAM recommendations and/or riding or installation in conditions or applications other than recommended.

Wear and tear parts are identified as:

- Dust seals
- Air sealing o-rings
- Rubber moving parts.
- Rear shock mounting hardware and main seals
- Stripped threads/bolts (aluminium, titanium, magnesium or steel)
- Brake pads
- Sprockets
- Shifter and brake cables (inner and outer)
- Shifter grips
- Disc brake rotors
- Bushings
- Glide rings
- Foam rings
- Upper tubes (stanchions)
- Brake sleeves
- Chains
- Cassettes
- Handlebar grips
- Jockey wheels
- Tools

This warranty shall not cover damages caused by the use of parts of different manufacturers.

This warranty shall not cover damages caused by the use of parts that are not compatible, suitable and/or authorised by SRAM for use with SRAM components.

95-4012-306-000, Rev. D
2007

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1610 Garden of the Gods
Colorado Springs, CO 80907

Ride on open trails only
Leave no trace
Control your bicycle
Always yield trail
Never spook animals
Plan ahead